Executive Summary

After visiting BFF and looking at their processes, TREE team members researched ways for BFF to reduce water use and discharge. Many water saving options were considered; feasible opportunities with the greatest impact were selected. The opportunities and numbers in this report are for the regular shredding line only (this was the line operating during the assessment). However, many of these techniques and savings can be carried over to other process lines.

Opportunities	Projected savings
#1 Heating defrost water and #2 Reusing defrost water	24,900 GPD
#3 Transporting waste solids without water	51,800 GPD
#4 Keeping hydrocooler water with potatoes	8,300 GPD
#5 Monitoring fresh feed to trim table to eliminate overflow	10,000 GPD
#6 Cleaning floors with low volume spray and brooms	6,100 GPD
#7 Changing operations on de-water 3	16,400 GPD
#8 Using defrost water in raw receiving	4,000 GPD
Total savings (based on an initial flow of 168,000 GPD ¹)	121,500 GPD

(more than a 70% reduction)

Process Unit	Total Flow [Gal Per Day]	With TREE conservation ideas implemented [Gal Per Day]
Raw Receiving Fill Up ²	4,000	0
Steam Peeler	4,320	4,320
Barrel wash	7,200	7,200
Slabber	1,440	1,440
Trim Table Reject Stream	7,200	7,200
Trim Table Overflow	11,520	1,440
Blancher 1	7,776	7,776
Blancher 2	6,091	6,091
Hydro-cooler loss at splitter	9,792	1,440
De-water 3 in Packaging	17,856	1,440
Spiral Freezer defrost/wash water	19,875	4135
Freezing Tunnel	12,480	3944
Small Hose	7,015	864
Large Hose	51,840	0
Total gal per day ¹	168,405	47,290

- 1. All flow estimates were conservative, so actual daily flow for the process is higher.
- 2. Normalized over the entire 10-day operating cycle.